S/M No. : DWF200P001

unique Klasse

# Service Manual

## KUF-300QFW/S

***Washing Machine***

***Wind Dry***

NOV. 2008

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# 1. SPECIFICATIONS

| no. | item | | DWF-200P | DWF-240P | DWF-260P |
|---|---|---|---|---|---|
| 1 | POWER SOURCE | | 110V / 60Hz, 220V / 50Hz, 240V / 60Hz | | |
| 2 | POWER CONSUMPTION | | 550 W | | |
| 3 | WEIGHT | | 47kg | 49kg | |
| 4 | dimension (wxhxd) | | 630 x 1015 x 700 mm | 630 x 1039 x 700 mm | |
| 5 | WASHING COURSE | | FULL AUTOMATIC 6 COURSE (Fuzzy, Blanket, Eco., Wool, Soak, Cleaning) | | |
| 6 | WATER CONSUMPTION | | 245ℓ | 255ℓ | |
| 7 | WATER LEVEL SELECTOR | High | 90ℓ | 95ℓ | |
| | | Mid | 70ℓ | 75ℓ | |
| | | Low | 59ℓ | 64ℓ | |
| | | Small | 49ℓ | 54ℓ | |
| 8 | OPERATING WATER PRESSURE | | 0.3kgf/cm² ~ 8kgf/cm² | | |
| 9 | REVOLUTION PER MINUTE | WASH | 130~150 | | |
| | | SPIN | 710~740 | | |
| 10 | PULSATOR | | 6 WINGS | | |
| 11 | WATER LEVEL CONTROL | | ELECTRONIC SENSING | | |
| 12 | AUTOMATIC WATER SUPPLY | | O | | |
| 13 | GEAR MECHANISM ASS'Y | | HELICAL GEAR | SPUR GEAR | |
| 14 | LINT FILTER | | 2 | 3 | |
| 15 | AUTOMATIC SOFTENER INPUT | | O | | |
| 16 | FUNCTION FOR TIME DELAY (RESERVATION) | | O | | |
| 17 | DISPLAY OF RESIDUAL TIME | | O | | |
| 18 | FUNCTION FOR BUBBLE | | O | | |
| 19 | DRAIN TYPE | | PUMP & NON PUMP | | |
| 20 | AUTOMATIC POWER OFF | | O | | |

**NOTES**

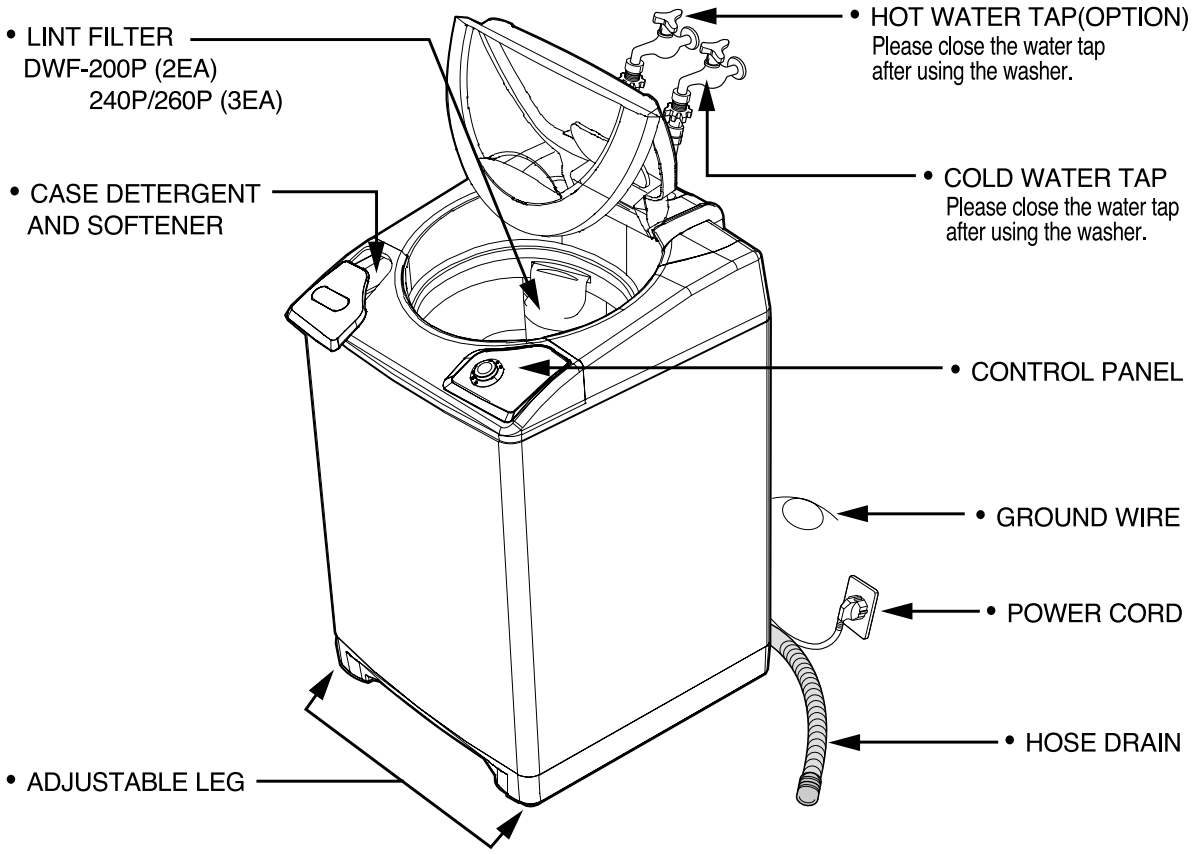
In case of moving Washing Machine, please follow the following picture.

# 2. STRUCTURE OF THE WASHING MACHINE

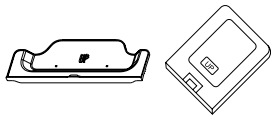
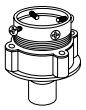
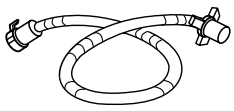
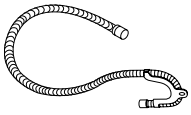
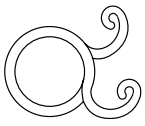
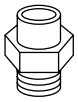
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

**NOTE**

- The drawings in this book may vary from your washer model.
  They are designed to show the different features of all models covered by this book, Your model may not include all features.


• LINT FILTER
DWF-200P (2EA)
240P/260P (3EA)
• CASE DETERGENT AND SOFTENER
• ADJUSTABLE LEG
• HOT WATER TAP(OPTION)
Please close the water tap after using the washer.
• COLD WATER TAP
Please close the water tap after using the washer.
• CONTROL PANEL
• GROUND WIRE
• POWER CORD
• HOSE DRAIN

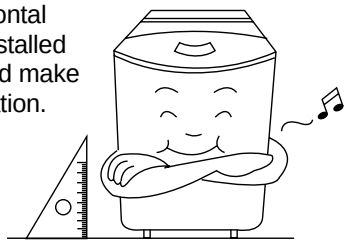
## ACCESSORIES (FULL OPTION)

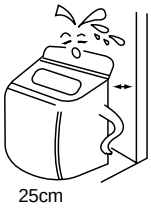
| DRYTEN (OPTION) | COVER UNDER | WATER TAP ADAPTER | INLET HOSE |
|---|---|---|---|
| |  DWF-200P's DWF-240P's DWF-260P's |  |  |
| HOSE DRAIN (FOR PUMP) | HOSE DRAIN CLAMP (FOR PUMP) | HOSE DRAIN (FOR NON-PUMP) | CONNECTOR INLET(OPTION) |
|  |  | |  |

# 3. DIRECTIONS FOR INSTALLATION AND USE

## INSTALLING PLACE

Install the washer on a horizontal solid floor. If the washer is installed on an unsuitable floor, it could make considerable noise and vibration.





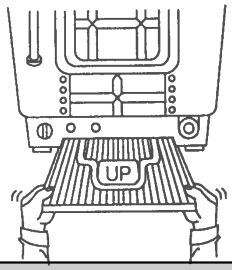

Keep the machine body more than 25cm apart from the wall surface. It will make easy cleaning the drain filter which is equipped at the back side of it. And if it comes into contract vibration may occur.

### Never install in these places

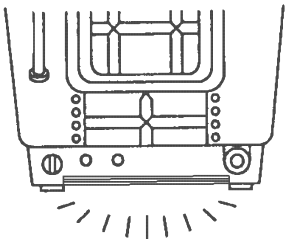
- The place where it would be exposed to direct sunlight.
- The place nearby a heater or heat appliance.
- The place where it would be supposed to be frozen in winter.
- The kitchen with coal gas and a damp place like a bathroom.

## Installation Of the COVER UNDER (Noise Insulation Plate)

**1** In the packing box or the tub of the washer, there is the COVER UNDER. Put the COVER UNDER at the bottom of the back.




**2** Push the COVER UNDER to the end. This reduces the noise from washing machine.

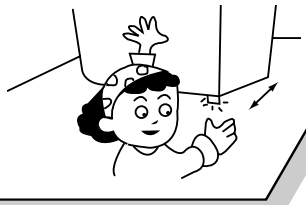


* The drawing of the COVER UNDER is variant from your model

## How To Install On An Inclined Place

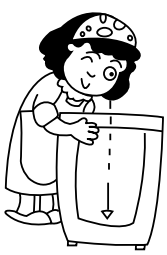
**1 Horizon Setting**

After controlling the height by turning the adjustable leg, let the washer put down to the ground.



**2 Check the Horizon Status**

Check the position of tub above the center of the washer.



**NOTES**

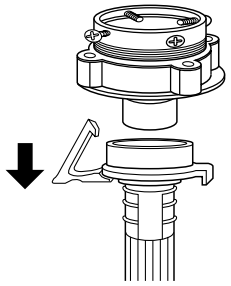
The openings must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

## How to Connect the Inlet Hose

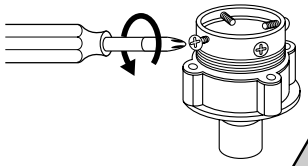
Be careful not to mistake in supplying between the hot(maximum : 50˚C) and cold water.
In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.
Do not over tighten : this could cause damage to couplings.

**• • • • FOR ORDINARY TAP**

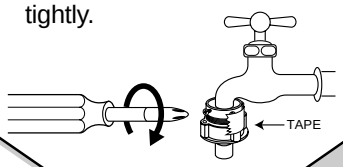
**1** Pull down the collar of the inlet hose to separate it from the water tap adapter.



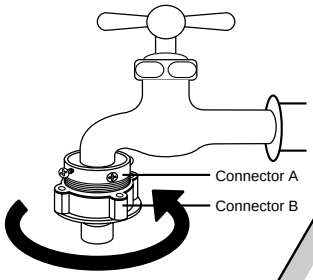
**2** Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.



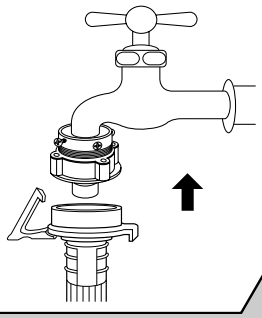
**3** Connect the water tap adapter to the water tap and tighten the four screws evenly with pushing up the adapter so that the rubber packing can stick to the water tap tightly.



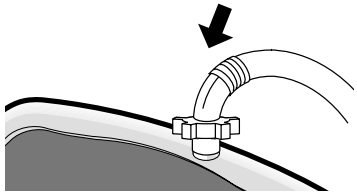

**4** Remove the tape, and screw connector B into connector A tightly.




**5** Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



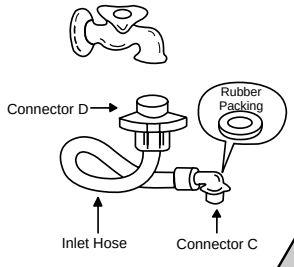
**6** Connect the inlet hose adapter to the water inlet of the washer by turning it clockwise to be fixed tightly.



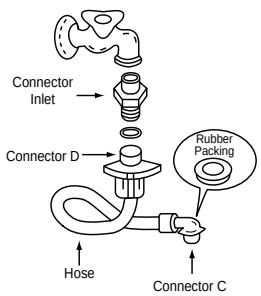
• Please check the rubber packing inside the inlet hose adapter.

**• • • • FOR SCREW-SHAPED TAP**

**1** Connect the inlet hose to the water tap by screwing the connector D tightly.




**2** Connect the connector-inlet supplied if necessary.



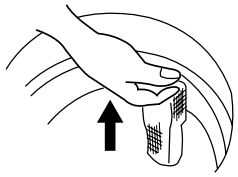

**3** Insert the inlet hose adapter into the water inlet of a washer and turn it to be fixed.

• Check the packing in the inlet

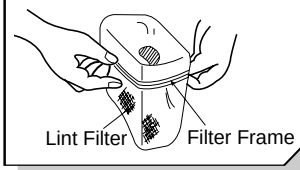
**• • • • CLEANING THE LINT FILTER**

• This washer has two Lint Filters in the top TUB in order to filter off lint and fuzz.

**1** Pull the Filter frame upward.



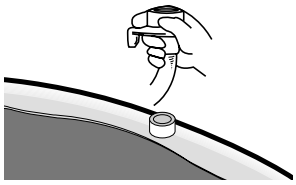
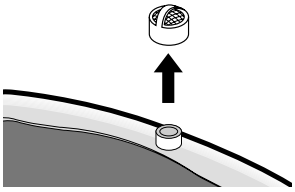
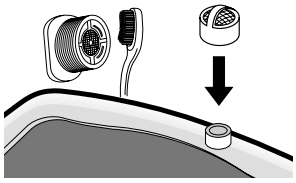
**2** Turn the lint filter inside out, wash to the lint off with water.




**3** Return the filter as it was, and insert the filter frame into the slot.

**• • • • CLEANING THE WATER INLET FILTER**

• Clean the filter when water leaks from the water inlet.

| ① Pull the power plug out before cleaning it. | ② Turn off the water supply to the washer and separate the inlet hose. | ③ Pull the inlet filter out. | ④ Remove the dirt from the inlet filter with a brush. |
|---|---|---|---|
| |  |  |  |

# 4. FEATURE AND TECHNICAL EXPLANATION

## Feature of the Washing Machine

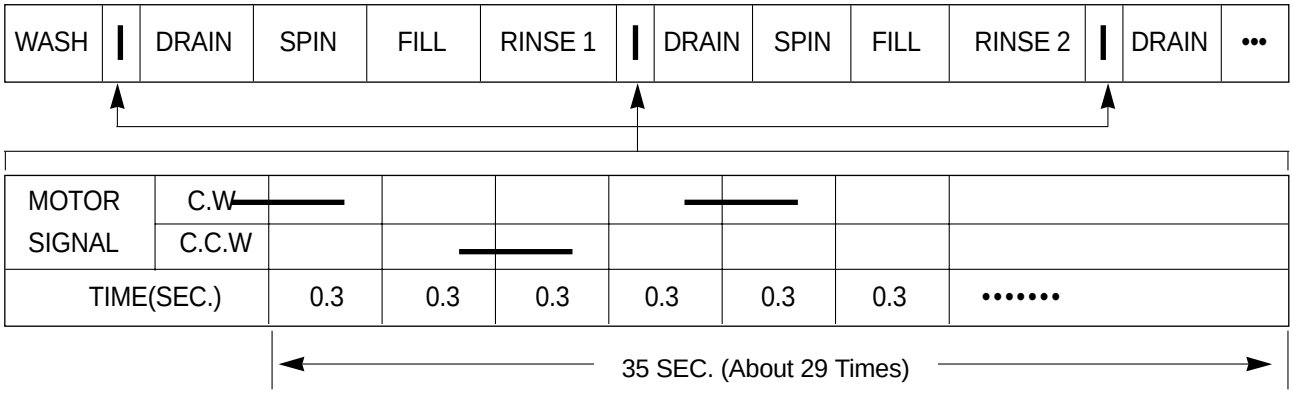
1 First applying the Radical Technology in the world ... go beyond washing, sterilize your clothes and deodorize a bad smell.
2 The first air bubble washing system in the world.
3 Quiet washing through the innovational low-noise design.
4 Improving washing performance by more than 35%, while reducing power consumption by 40%.
5 The laundry detergent dissolves well in water because of the air bubble washing system.
6 The adoption of the water currents to adjust the unbalanced load.
7 One-touch operation system.

## Water Current to Adjust the Unbalanced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalanced load.)

**EFFECT**
It reduces vibration and noise effectively while spinning.

**WATER FLOW**

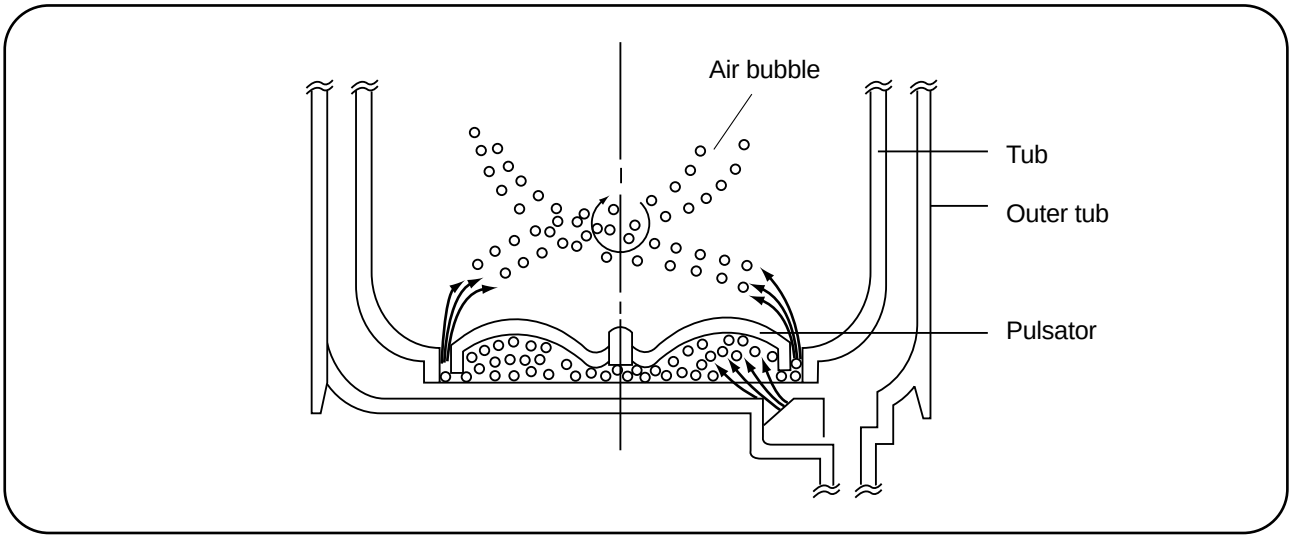



## Automatic Water Supply System for Blanket Wash

The water level would be lowered because the blanket absorbs water at the beginning of washing. Therefore, after 2 minutes, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

## Functional Principle of Bubble Washing Machine

**ACROSS SECTION**




**FUNCTIONAL PRINCIPLE**

Bubble Motor supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

## Automatic Drainning time Adjustment

This system adjusts the draining time automatically according to the draining condition.

| | | |
|---|---|---|
| Draining condition | Good draining | The washer begins spin process after drainage. |
| | Bad draining | Drainining time is prolonged. |
| | No draining | Program is stopped and gives the alarm. |

**FUNCTIONAL PRINCIPLE**

1 The micom can remember the time from the begining of drain to reset point when the pressure switch reaches to "OFF" point

| Drain Time | Movement of the Program |
|---|---|
| Less than 15 minutes | Continue draining |
| More than 15 minutes | Program stops and gives the alarm with dE blinked on display lamp. |

2 In case of continuous draining, residual drain time is determined by micom.

Draining time as a whole = D + 90

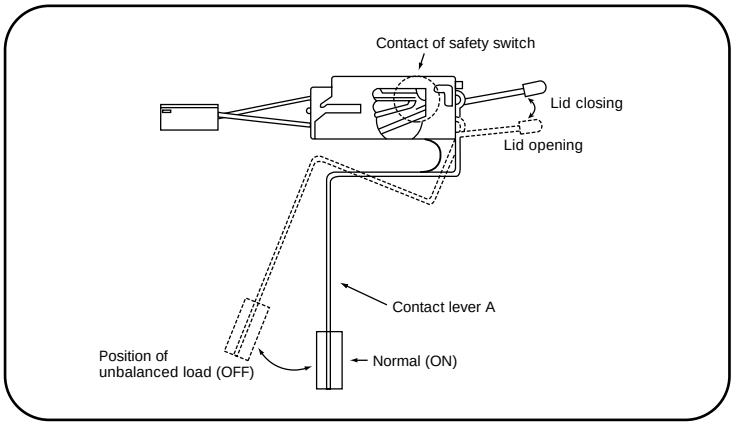
- 90 — Residual drain time.
- D — The time remembered by micom.

## Automatic Unbalance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

**FUNCTIONAL PRINCIPLE**

1. When the lid is closed, the contact lever A of the safety switch is “ON” position.
2. In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
3. In case that P.C.B. ASS’Y gets “OFF” signal from the safety switch, spin process is stopped and rinse process is started automatically.
4. If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.



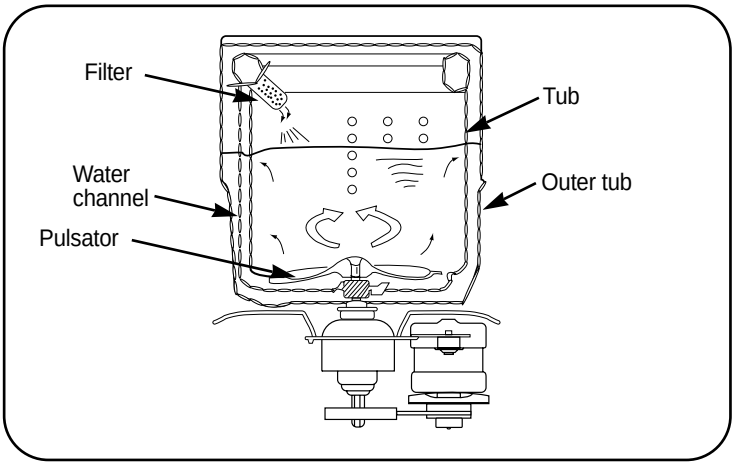

**NOTES**

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

## Circulating-Water Course and Lint Filter

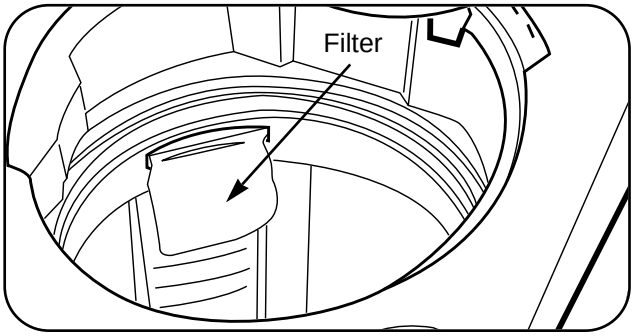
**CIRCULATING-WATER**

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.
When the pulsator rotates during the washing or rinsing process, the water below the pulsator fans creates a water currents as shown in figure.
The water is then discharged from the upper part of the tub through the water channel.
About 40 L/min. water is circulated at the ‘high’ water level, standard wash load and standard water currents.



## Lint Filter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also stick to the clothes.
To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.




**HOW TO REPLACE LINT FILTER**

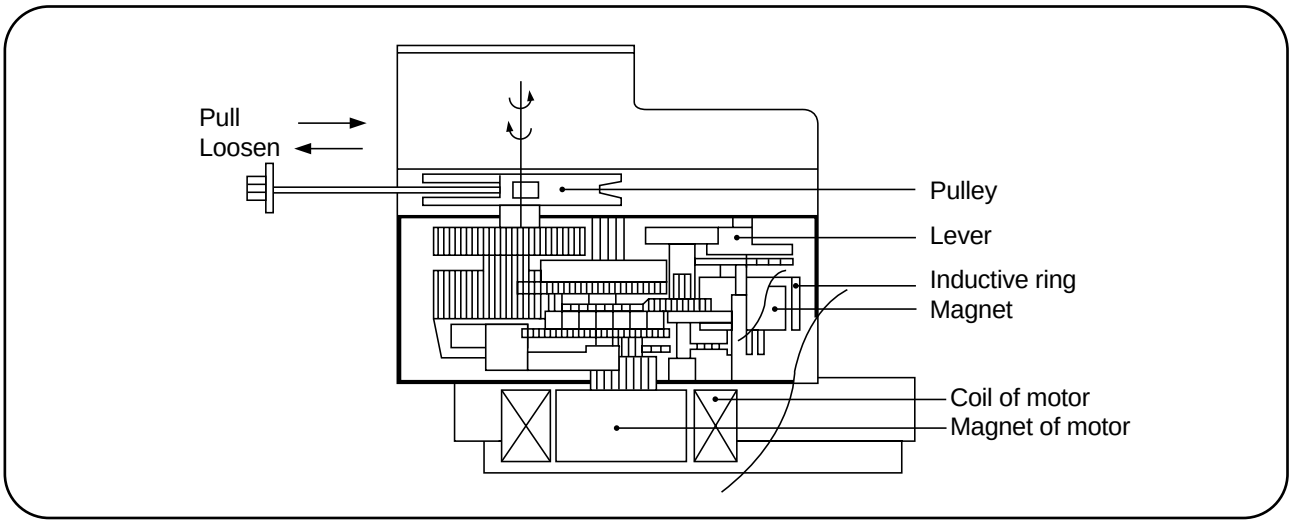
1 Pull the filter frame upward.
2 Turn the lint filter inside out, and wash the lint off with water.
3 Return the filter as it was, and fix the filter frame to the slot.

## Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.
When operation is finished, the TIME INDICATOR will light up .

## Drain Motor

**STRUCTURE**

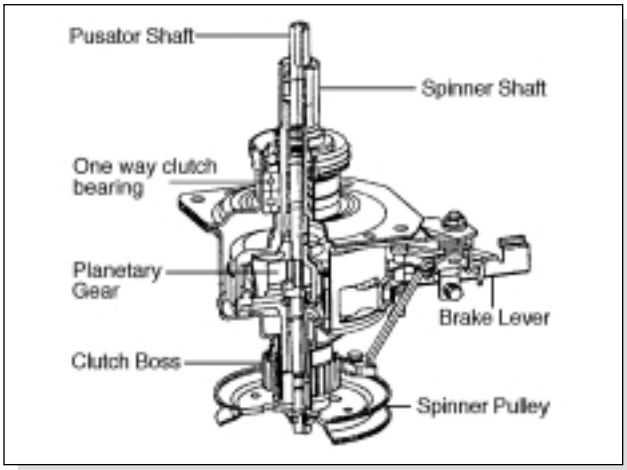


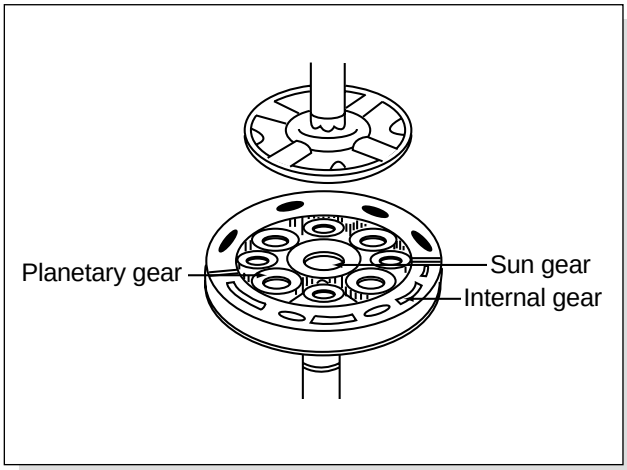

**FUNCTIONAL PRINCIPLE**

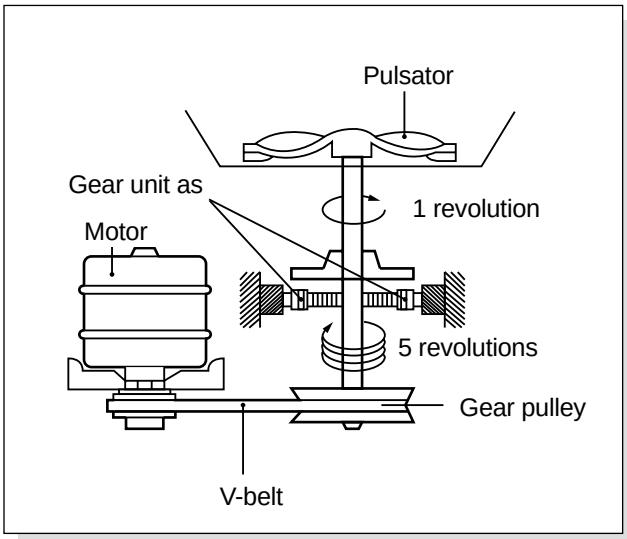
1 When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
2 When the pulley is rotated, the pulley winds the wire to open the drain valve.
3 Therefore, rotation of pulley changed to the linear moving of wire.
4 The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
5 After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
6 When the power is turned off, the drain valve is closed because the wire returns to original position.

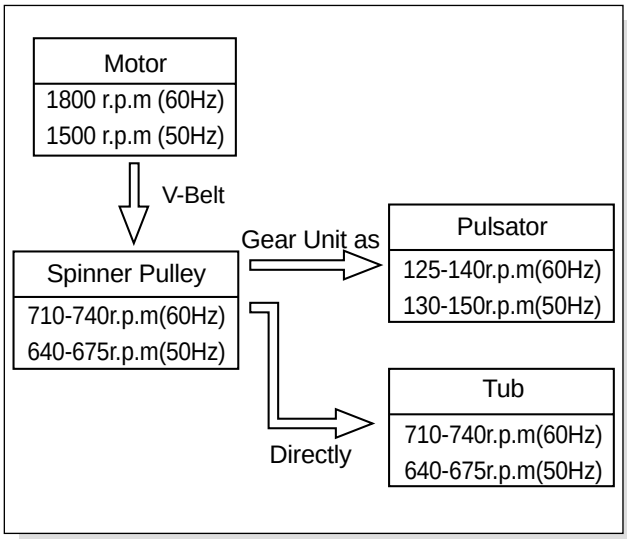
## Gear Mechanism Ass'y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



# 5. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

## Warning

BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

## Gear Mechanism Ass'y Replacement

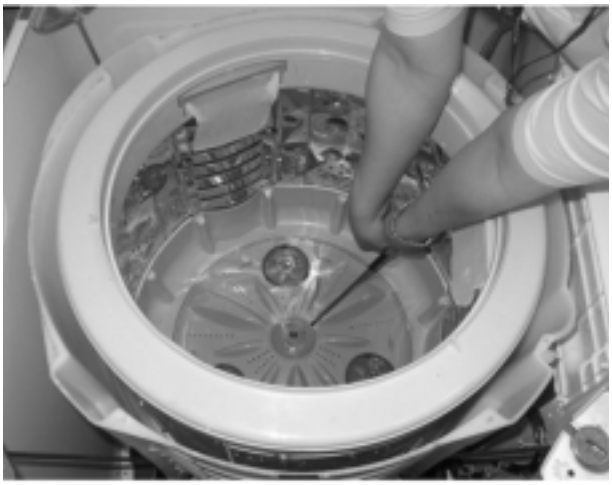
**GEAR MECHANISM ASS'Y REPLACEMENT**

① Remove CASE DETERGENT and bolt.
② Separate PANEL F by pushing PANEL F to the left.

③ Remove 4 bolts and separate PLATE T from washing machine.

④ Unscrew 4 bolts and separates COVER TUB from TUB ass'y.

⑤ Remove CAP PULSATOR form PULSATOR using screw driver.

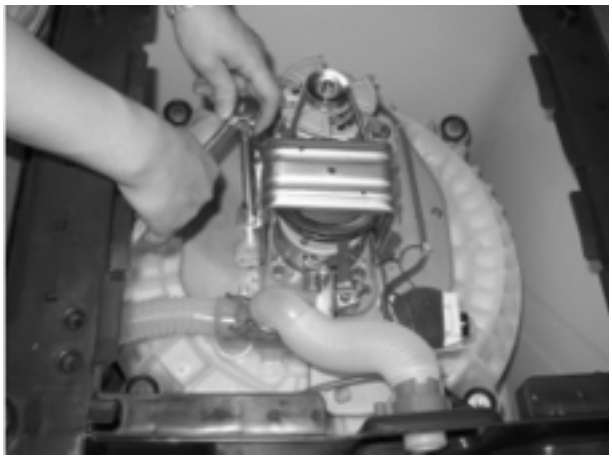


⑥ Unscrew PULSATOR mounting screw and separates PULSATOR form TUB ass'y.

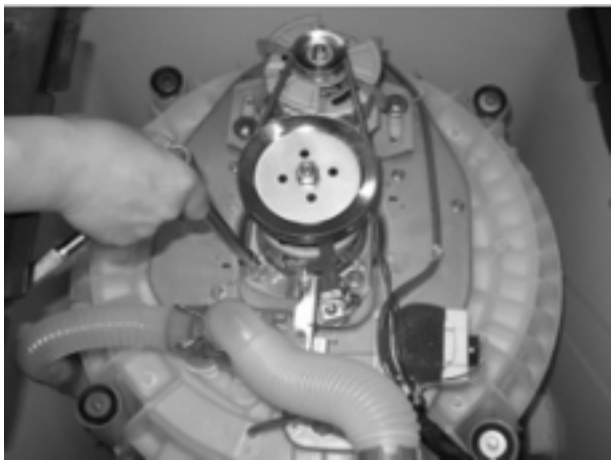
⑦ Unscrew special nut using 'T' type box wrench.

⑧ Separate TUB I from TUB ass'y.

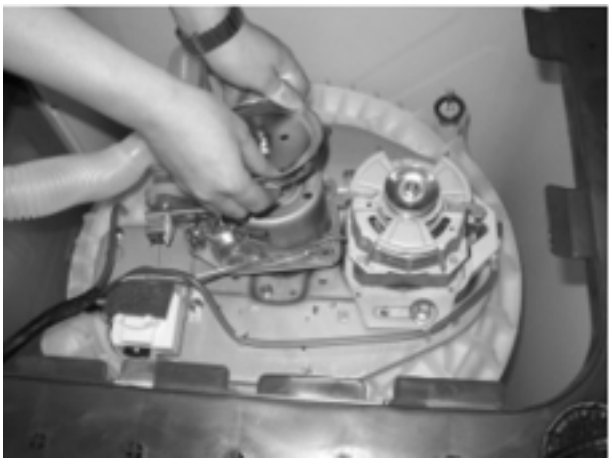
⑨ Lay the top of the washing machine on the floor.
⑩Unscrew 4 special bolts of GEAR PROTECT using a box wrench and separate GEAR PROTECT .



⑪ Unscrew 4 special bolts of GEAR MECHANISM using a box wrench.



⑫ Separate GEAR MECHANISM and BELT V.

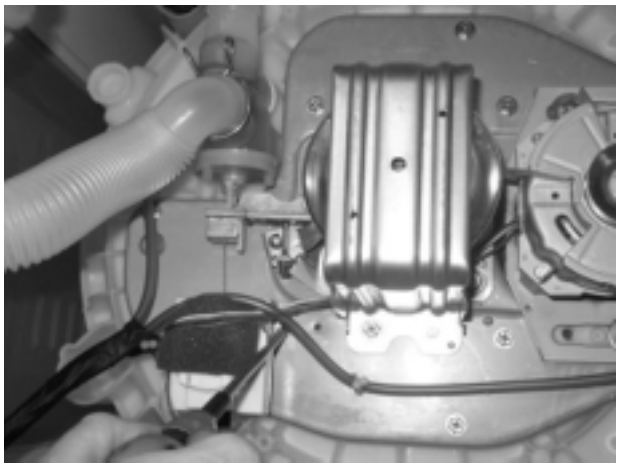


**NOTES**

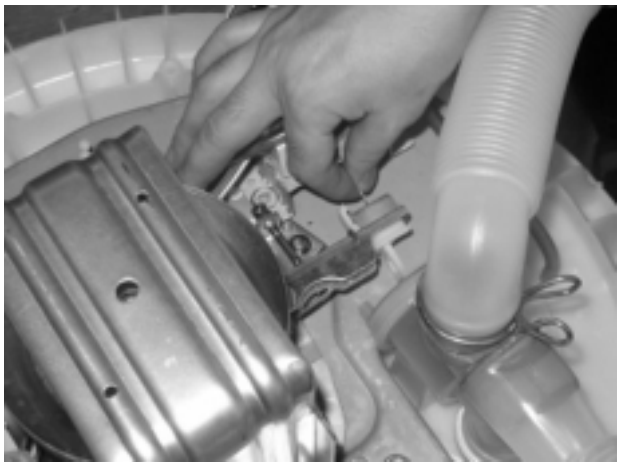
To assemble the gear mechanism ass'y, reverse the disassembly procedure.

**MOTOR DRAIN AND VALVE REPLACEMENT (NON PUMP MODEL)**

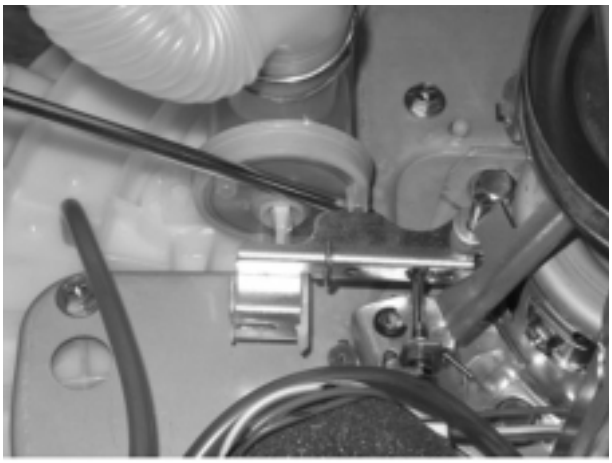
① Lay the top of the washing machine on the floor.
② Unscrew 2 special bolts mounting MOTOR DRAIN.



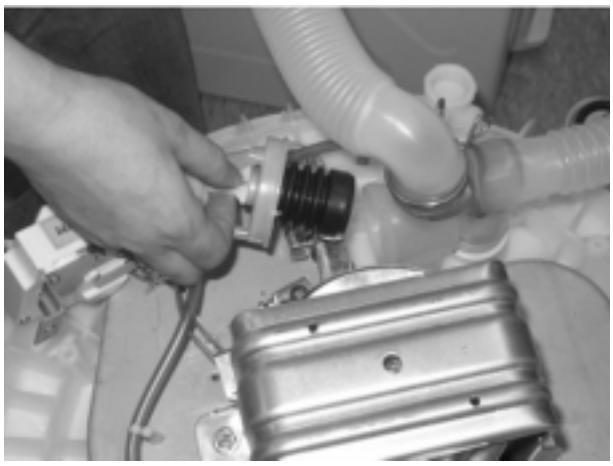
③ Take out the wire of MOTOR DRAIN.
④ Separate MOTOR DRAIN from BASE.



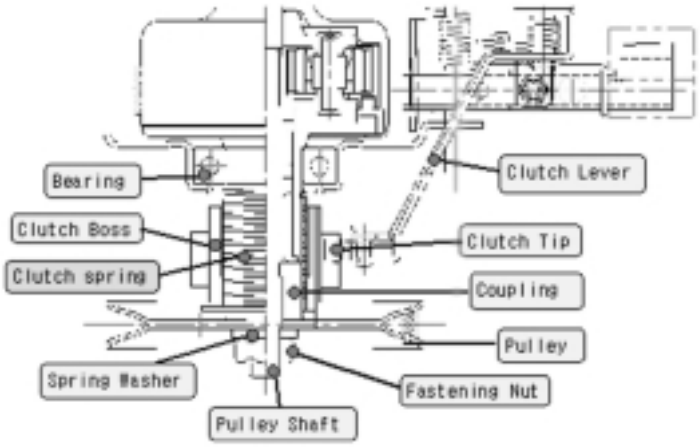
⑤ Turn the valve using screw driver as shown picture.

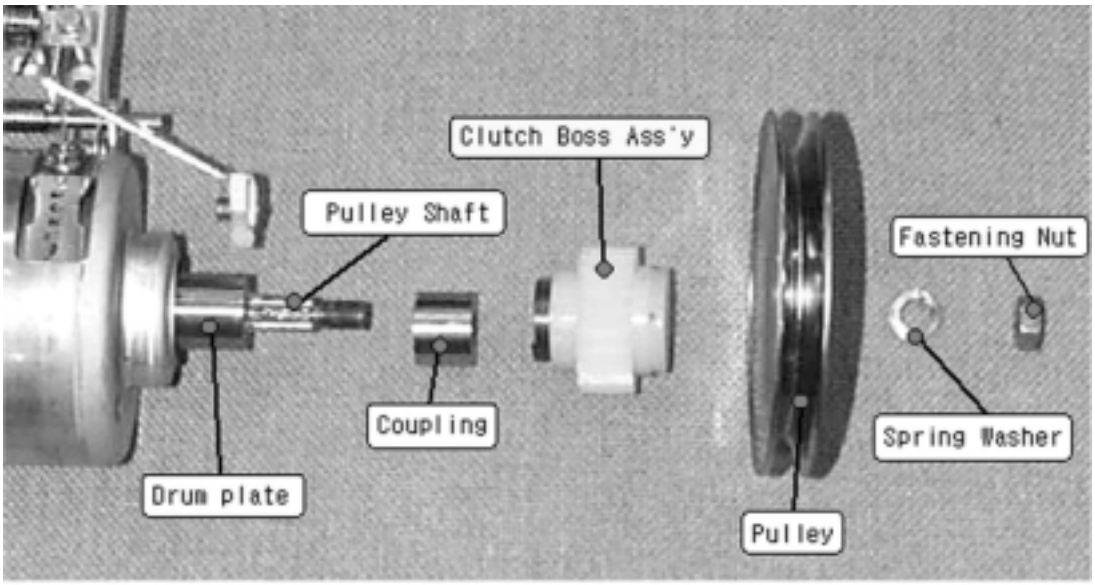


⑥ Separate the valve lid from VALVE DRAIN assay.

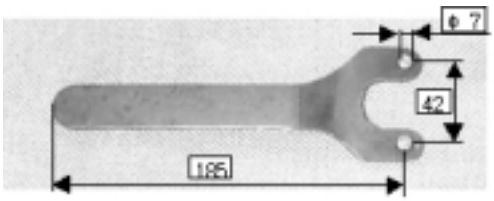


## the structure of gear mechanism




**●TOOL FOR REPLACING THE CLUTCH BOSS ASSEMBLY●**

| Tool name | Specification | Q'ty |
|---|---|---|
| Fixing jig |   | 1 |
| Ratchet handle | | 1 |
| Socket and extension bar | socket : 10mm, 17mm | per each |
| Cotton yarn | | some |

## how to check the clutch spring

**CHECKING METHOD**

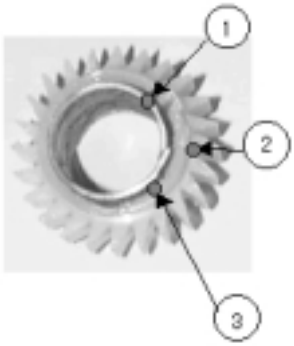
IN THIS CASE, YOU MUST EMPTY THE SPIN TUB FIRST.

1) TO CHECK THE REVOLUTION OF SPIN TUB.
   IF THE SPIN TUB DOES NOT REVOLVE AND ONLY THE PULSATOR IS TURNING, THAT IS CLUTCH SPRING DEFECT.

2) TO CHECK THE SPIN SPEED(RPM) BETWEEN SPIN TUB AND PULSATOR.
   IF YOU FIND THE DIFFERENT SPIN SPEED BETWEEN SPIN TUB AND PULSATOR, THIS IS ALSO CLUTCH SPRING DEFECT.

   IN THIS CASE, WE ARE GOING TO SUPPLY THE CLUTCH BOSS ASSEMBLY INSTEAD OF GEAR MECHANISM ASSEMBLY. PLEASE REFER TO FOLLOWING FIG.

**THE CLUTCH BOSS ASSEMBLY**

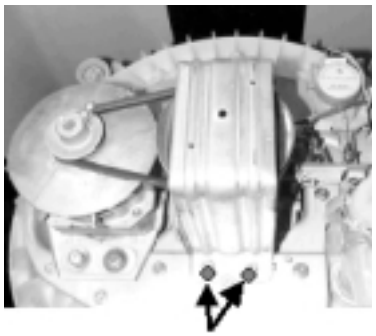
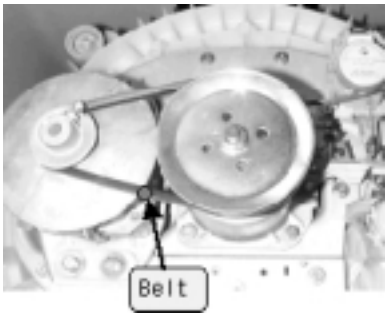
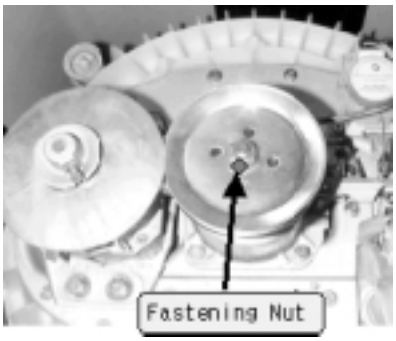
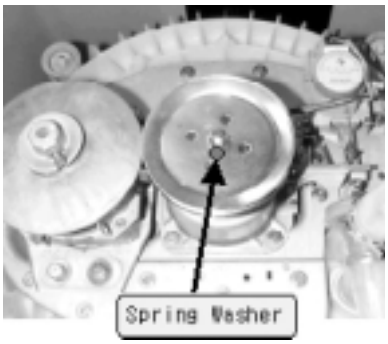



| NO. | PARTS NAME | SPECIFICATION | CODE | Q'TY |
|---|---|---|---|---|
| 1 | CLUTCH SPRING | 1.5*1.5 | 3615110000 | 1 |
| 2 | CLUTCH BOSS | PP | 3619301300 | 1 |
| 3 | GREASE | beacon#325 3g | | |
| PACKING METHOD | PACKING THE CLUTCH BOSS ASS'Y BY USING VINYL PACK | | | 1 |

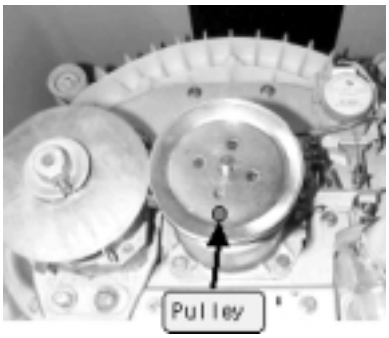
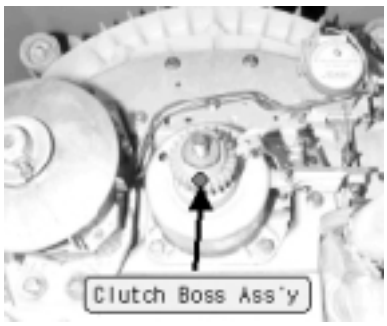
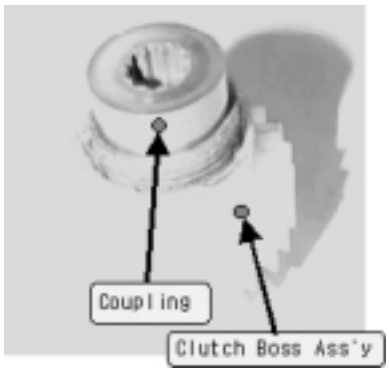
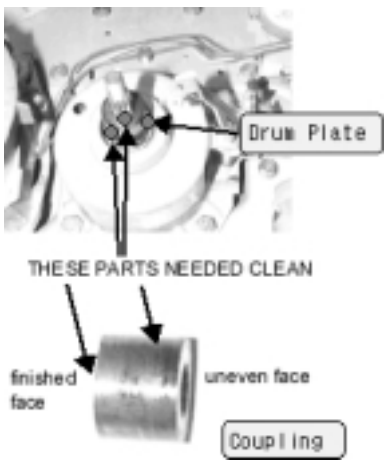
CLUTCH BOSS ASS'Y PART CORD : 3619301400

## The Process Of Disassembling

Disassembling 1

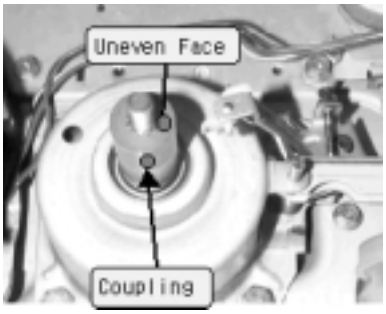
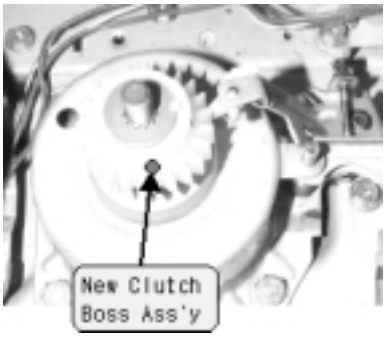
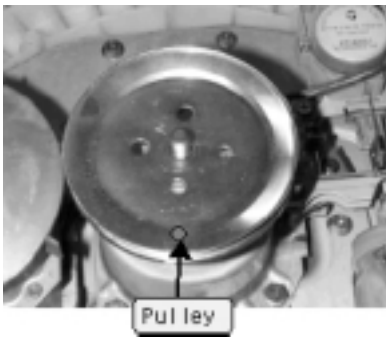
| No. | Process | | Notice |
|---|---|---|---|
| 1 |  Release screws marked 4-point | Remove the protector | Use wrench or driver<br>- ratchet handle<br>- extension bar<br>- socket : 10mm |
| 2 |  | Remove the v-belt | |
| 3 |  | Loosen the fastening nut | Use fixing jig for pulley as to see fig 1.<br>and 17mm-socket for nut |
| 4 |  | Disassemble the spring washer | Take out plain washer if it has |

Disassembling 2

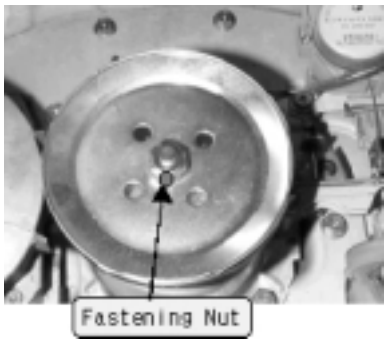
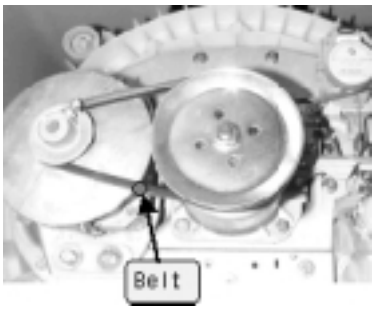
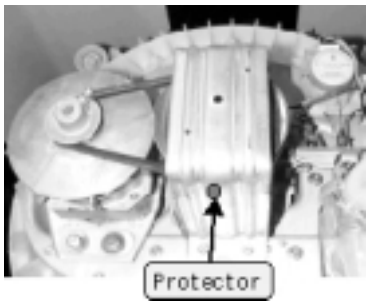
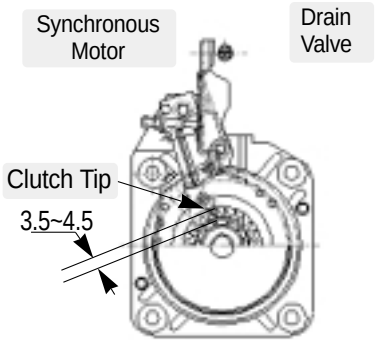
| No. | Process | | Notice |
|---|---|---|---|
| 5 |  | Disassemble the pulley | |
| 6 |  | Disassemble the clutch boss assembly | Catch the boss and pull upward with spiral rotate in the clockwise direction |
| 7 |  | Separate coupling from clutch boss ass'y | |
| 8 |  | Cleaning | Clean the drum plate, coupling surface and contact face between drum plate and coupling<br><br>It is necessary to keep cotton piece goods being dry and clean |

## The Process Of Assembling

Assembling 1

| No. | Process | | Notice |
|---|---|---|---|
| 1 |  | Assemble the coupling | Check the uneven face of coupling is assembled upward |
| 2 |  | Assemble the new clutch boss ass'y | - Push in the clutch boss ass'y with rotating on the clockwise direction.<br>- After assembling, rotate on the clockwise more 2~3 teeth and pull out the pulley shaft upward<br> |
| 3 |  | Assemble the pulley | |
| 4 | | Assemble the spring washer | If there was plain washer, you have to assemble plain washer the first and then assemble spring washer |

Assembling 2

| No. | Process | | Notice |
|---|---|---|---|
| 5 |  | Assemble the fastening nut | - Use fixing jig and 17mm socket wrench as if disassembling, as fastening torque about 100~200kgf-cm.<br>- Check the end-play, up and downward and check the binding force, too much or not on bi-direct of rotation.<br> |
| 6 |  | Assemble the belt | |
| 7 |  | Assemble the protector | |
| 8 |  | Final checking | Finally, check the interference depth both clutch tip and clutch boss(3.5~4.5mm) |

**NOTES**

1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
2. Disconnect the power cord from the electric outlet.

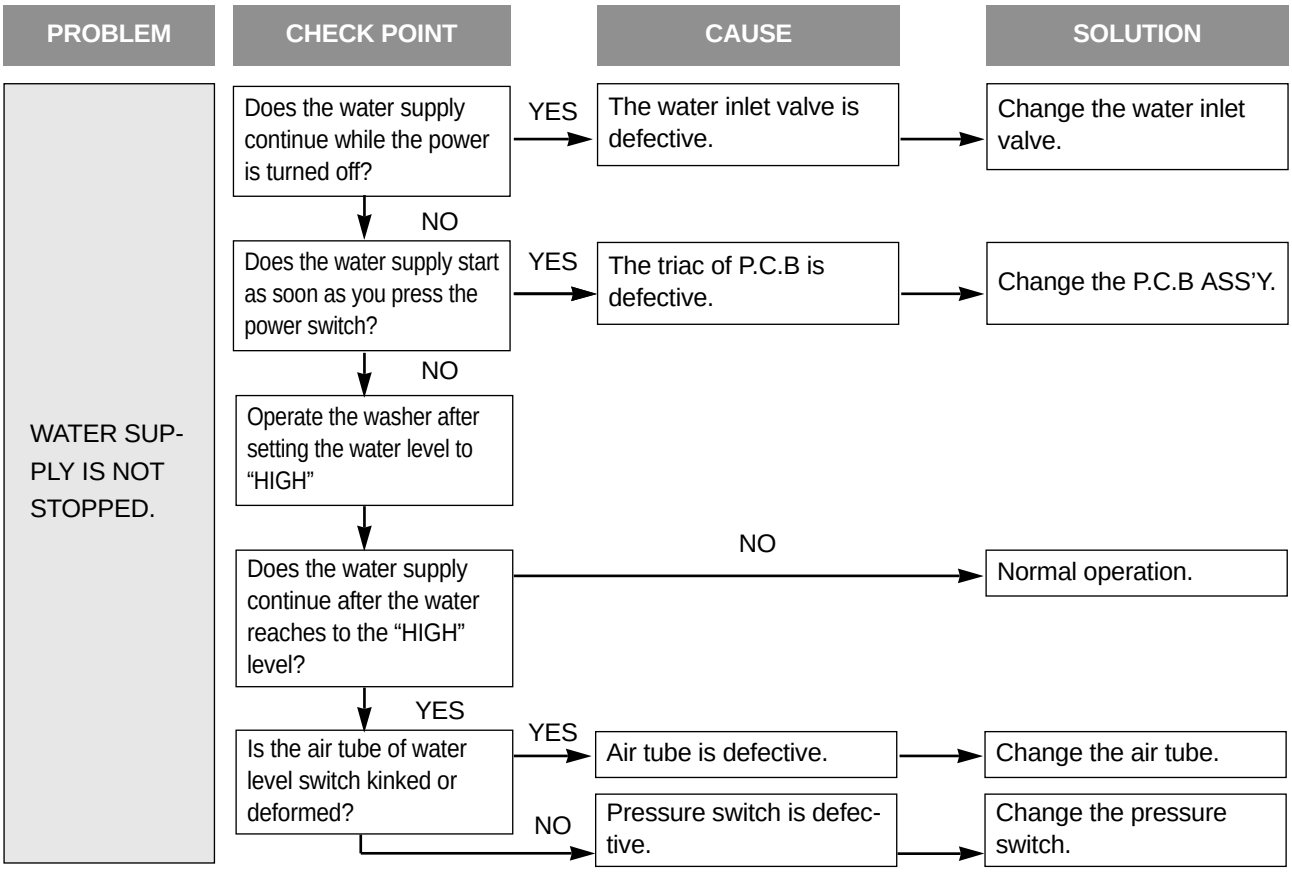
## Concerning Water Supply

| PROBLEM | CHECK POINT | CAUSE | SOLUTION |
|---|---|---|---|
| WATER IS NOT SUPPLIED. | Do you open the water tap? | NO | Open the water tap. |
| | Is the filter of the water inlet valve clogged with dirt? | YES | Clean the filter. |
| | Is the water pressure sufficient? (0.3~8 kgf/cm²) | NO | Increase the water pressure. |
| | Does the water inlet valve make operating sound? | NO | Water inlet valve is defective. → Change water inlet valve. |
| | Is the connector or the terminal connected properly? | NO | Improper connection of the connector or the terminal. → Connect the connector or the terminal properly. |
| | Is the output voltage of the P.C.B normal? | NO | P.C.B AS is defective. → Change the P.C.B AS. |
| | | YES | Lead wire is defective. → Change the lead wires. |

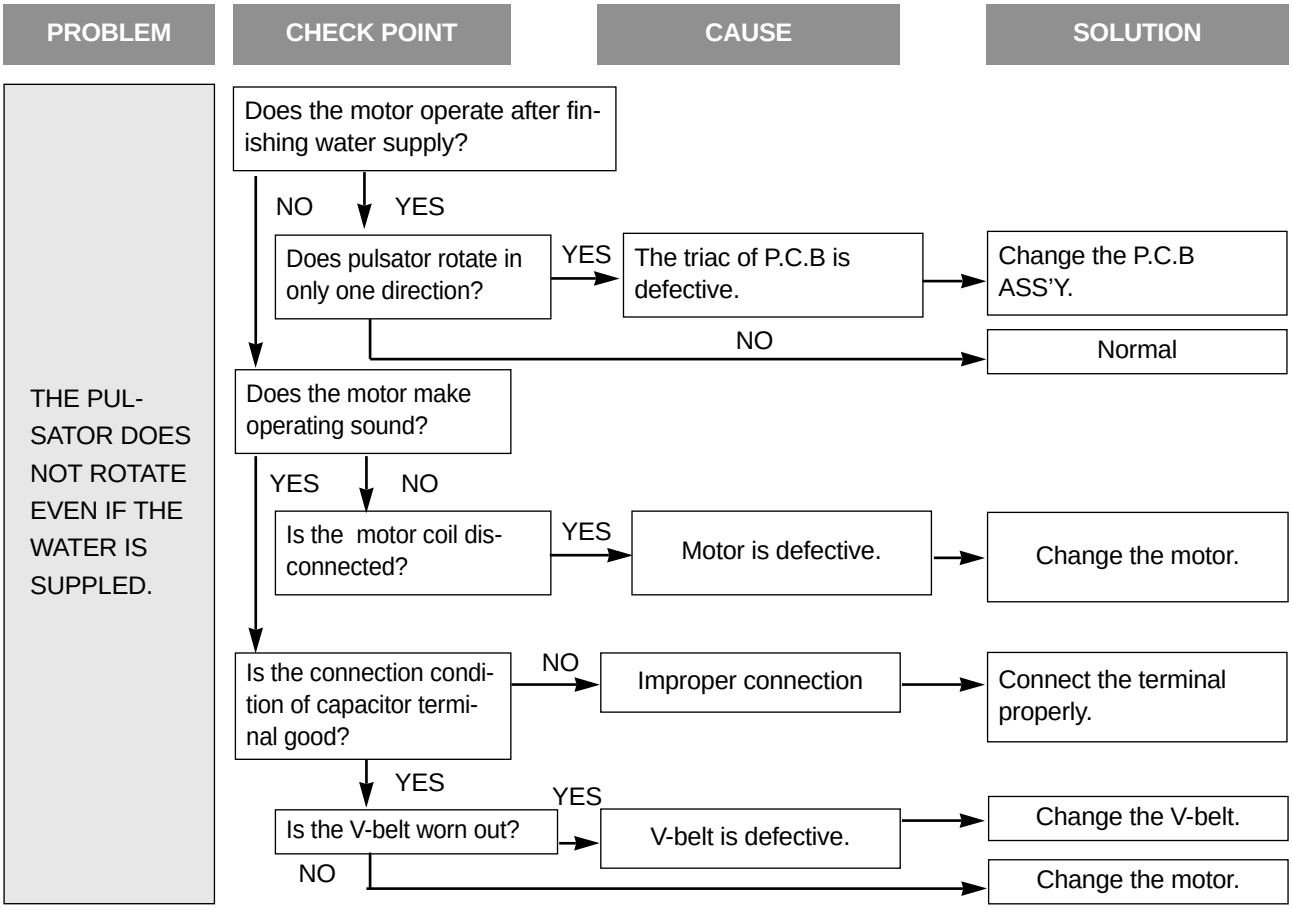
NOTE : Open the water tap fully and measure the flow rate.

| Flow rate(ℓ/min.) | 11.5 | 15.0 | 18.0 | 20.3 | 24.1 | 27.4 |
|---|---|---|---|---|---|---|
| Water pressure (Kgf/cm²) | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 |

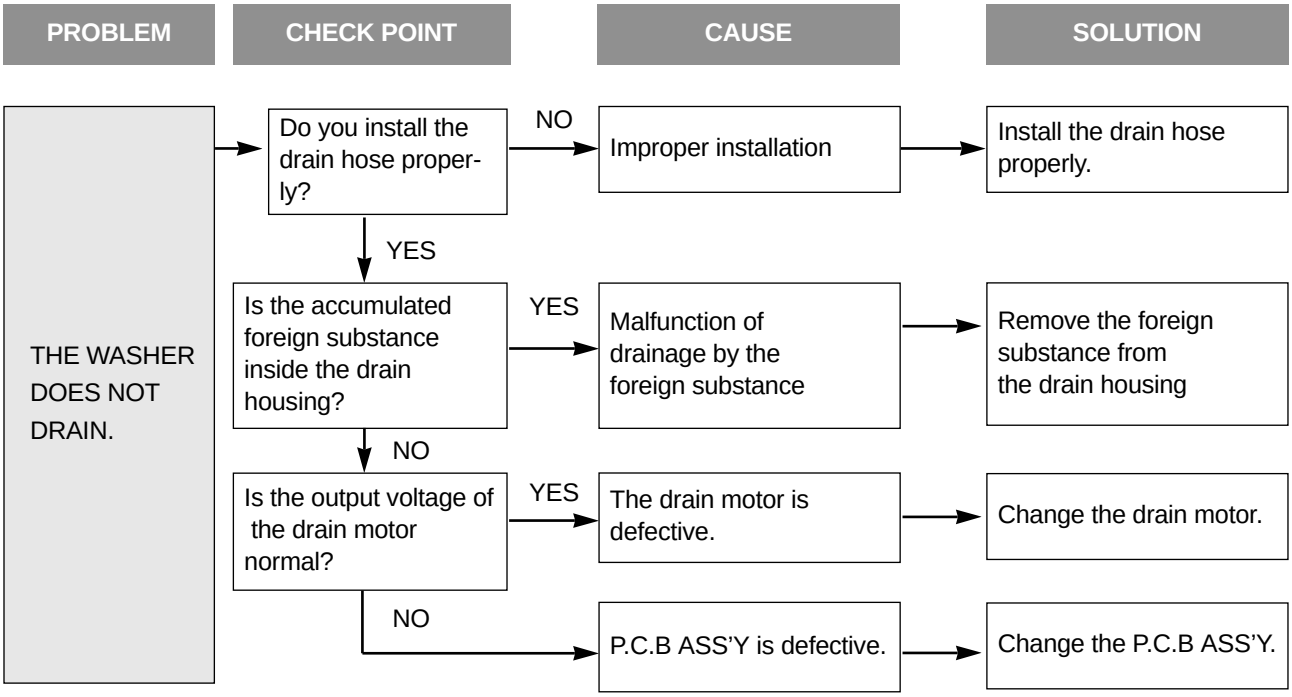
From the upper results, you know that the flow rate more than 11.5ℓ/min. is essential for water supply.


PROBLEM
CHECK POINT
CAUSE
SOLUTION
WATER SUPPLY IS NOT STOPPED.
Does the water supply continue while the power is turned off?
YES
The water inlet valve is defective.
Change the water inlet valve.
NO
Does the water supply start as soon as you press the power switch?
YES
The triac of P.C.B is defective.
Change the P.C.B ASS'Y.
NO
Operate the washer after setting the water level to "HIGH"
Does the water supply continue after the water reaches to the "HIGH" level?
NO
Normal operation.
YES
Is the air tube of water level switch kinked or deformed?
YES
Air tube is defective.
Change the air tube.
NO
Pressure switch is defective.
Change the pressure switch.

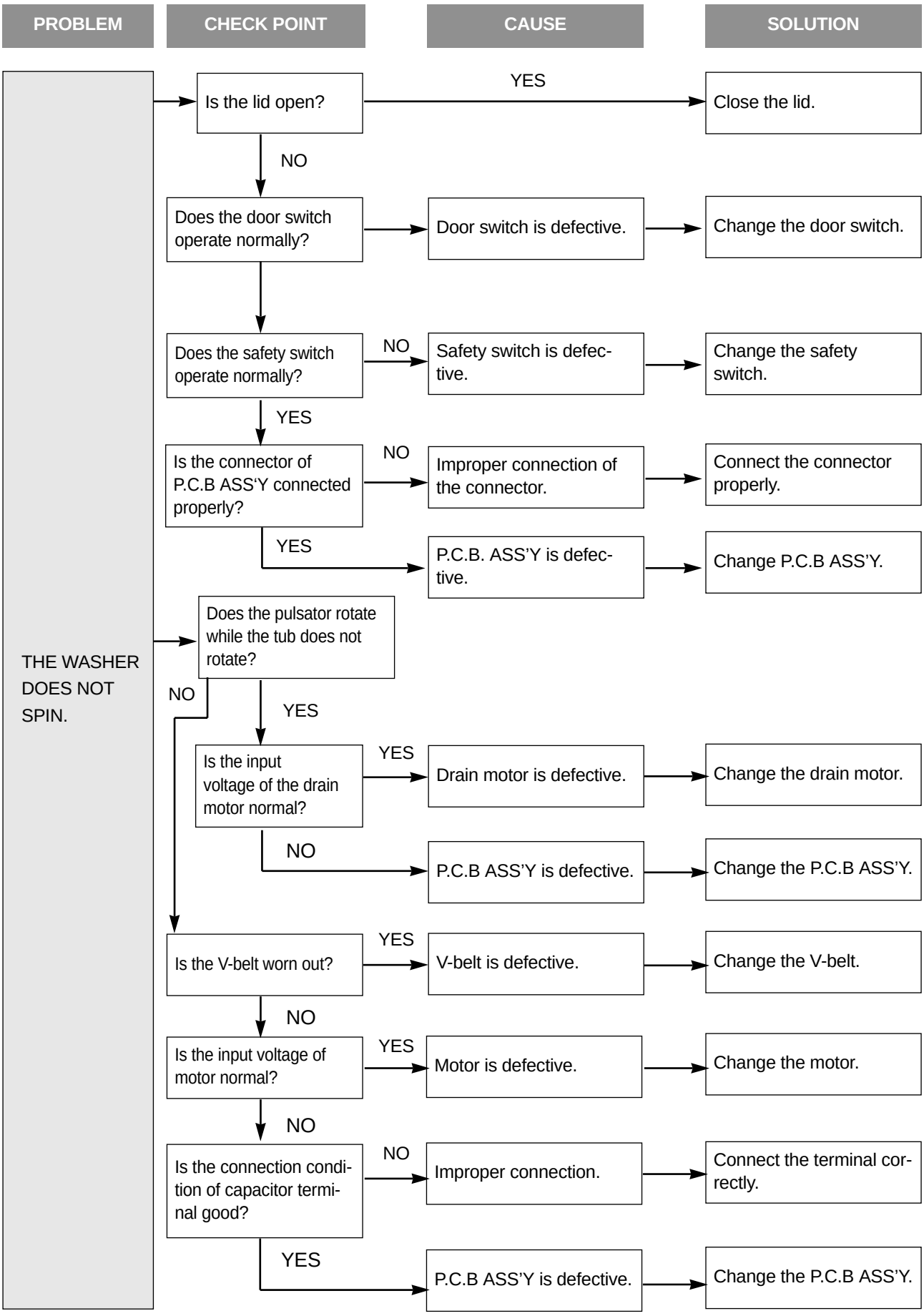
## Concerning Washing



## Concerning Draining



## Concerning Spinning



## Concerning Operating

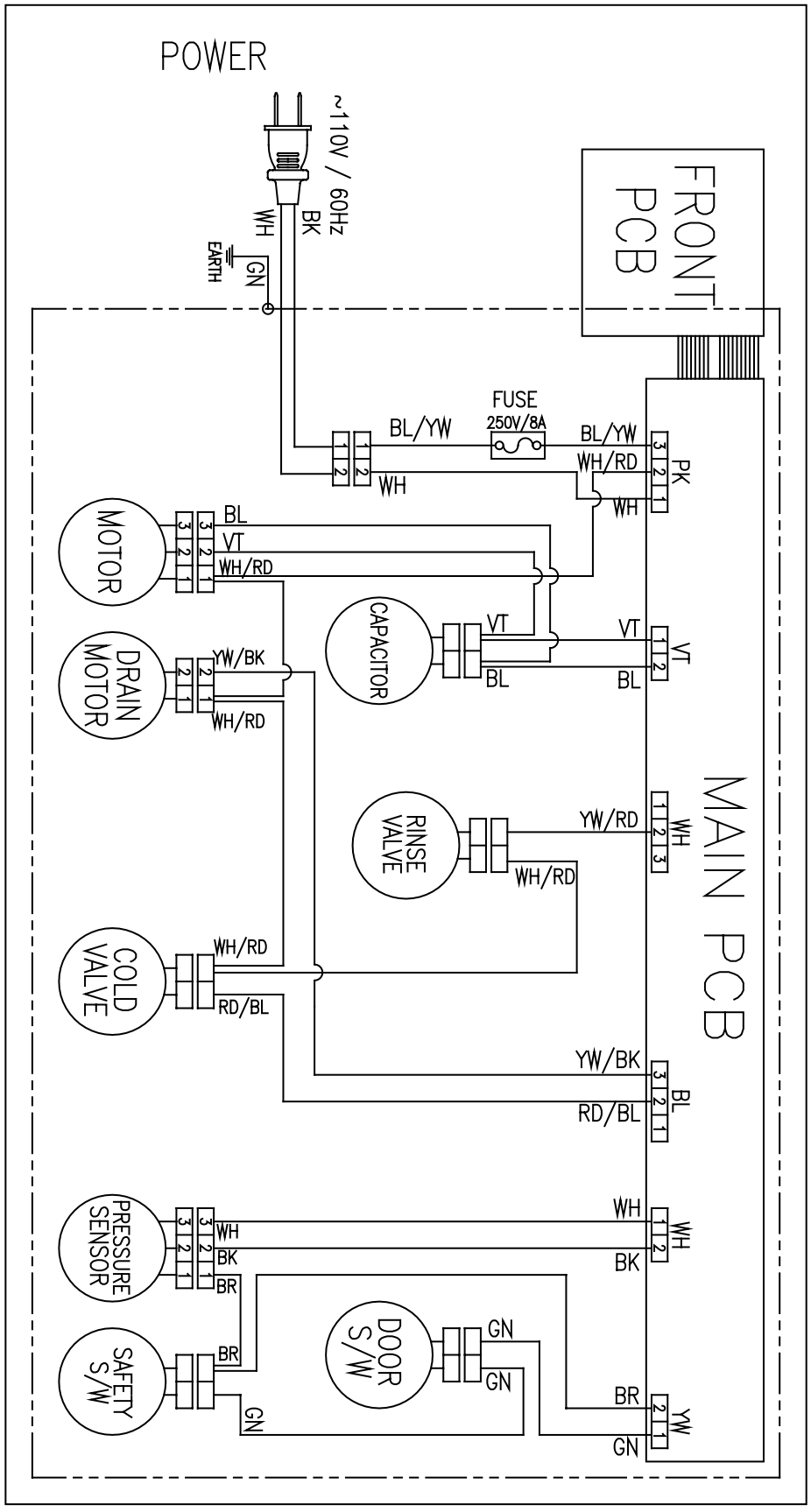
| PROBLEM | CHECK POINT | CAUSE | SOLUTION |
|---|---|---|---|
| THE INDICATOR LAMPS(L.E.D) DO NOT LIGHT UP WHEN THE POWER BUTTON IS PRESSED. | Is the plug connected to electric outlet? | NO | Connect the plug. |
| | Is Fuse opened? | YES | Change Fuse |
| | Is the condition of power button good? | NO → Power button is defective | Change P.C.B ASS'Y. |
| | Is the connector of the P.C.B. ASS'Y connected properly? | NO → Improper connection of the connector. | Connect the connector properly. |
| | Is input voltage of the transformer normal? | NO → Transformer is defective | Change Transformer |
| | | YES → P.C.B. ASS'Y is defective. | Change P.C.B ASS'Y. |
| PROGRESS LAMPS(LED) DO NOT LIGHT UP. | Do you press START/HOLD button? | NO | Press START/HOLD button. |
| | | YES → P.C.B ASS'Y is defective. | Replace P.C.B ASS'Y. |
| MOTOR ROTATES WHEN START/HOLD BUTTON IS NOT PRESSED. | Check the output voltage of P.C.B ASS'Y | Abnormal → P.C.B ASS'Y is defective | Change P.C.B ASS'Y. |
| ABNORMAL NOISE DURING WASH PROCESS. | Is the strange noise generated when the pulsator rotates in TEST MODE of P.C.B ASS'Y? | YES → There is foreign matter between pulsator and tub. | Remove the foreign matter. |
| | Is the V-belt worn out? | YES → V-belt is defective. | Change the V-belt. |

# 8. PRESENTATION OF THE P.C.B ASS'Y

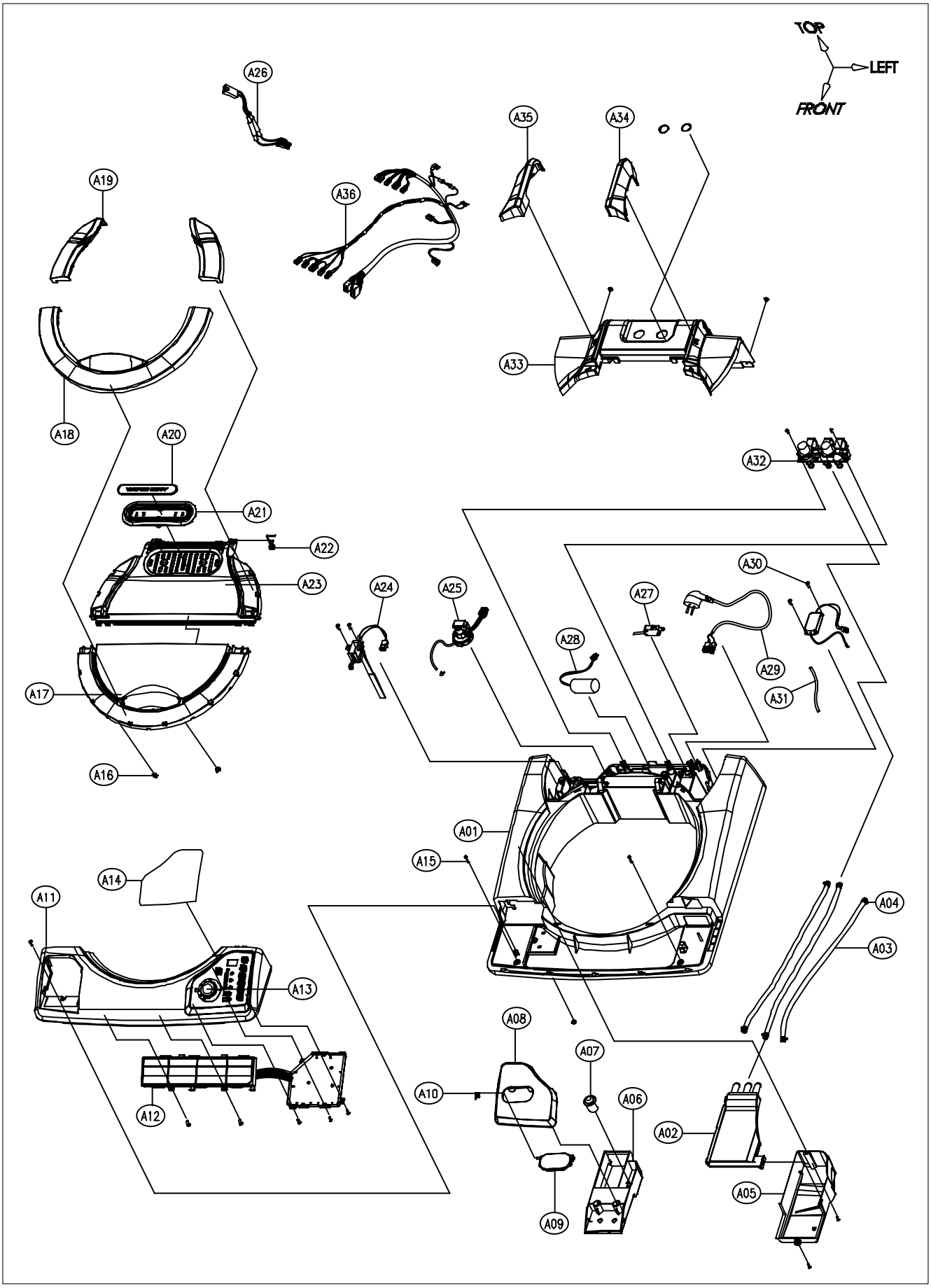
## Concerning Error Message

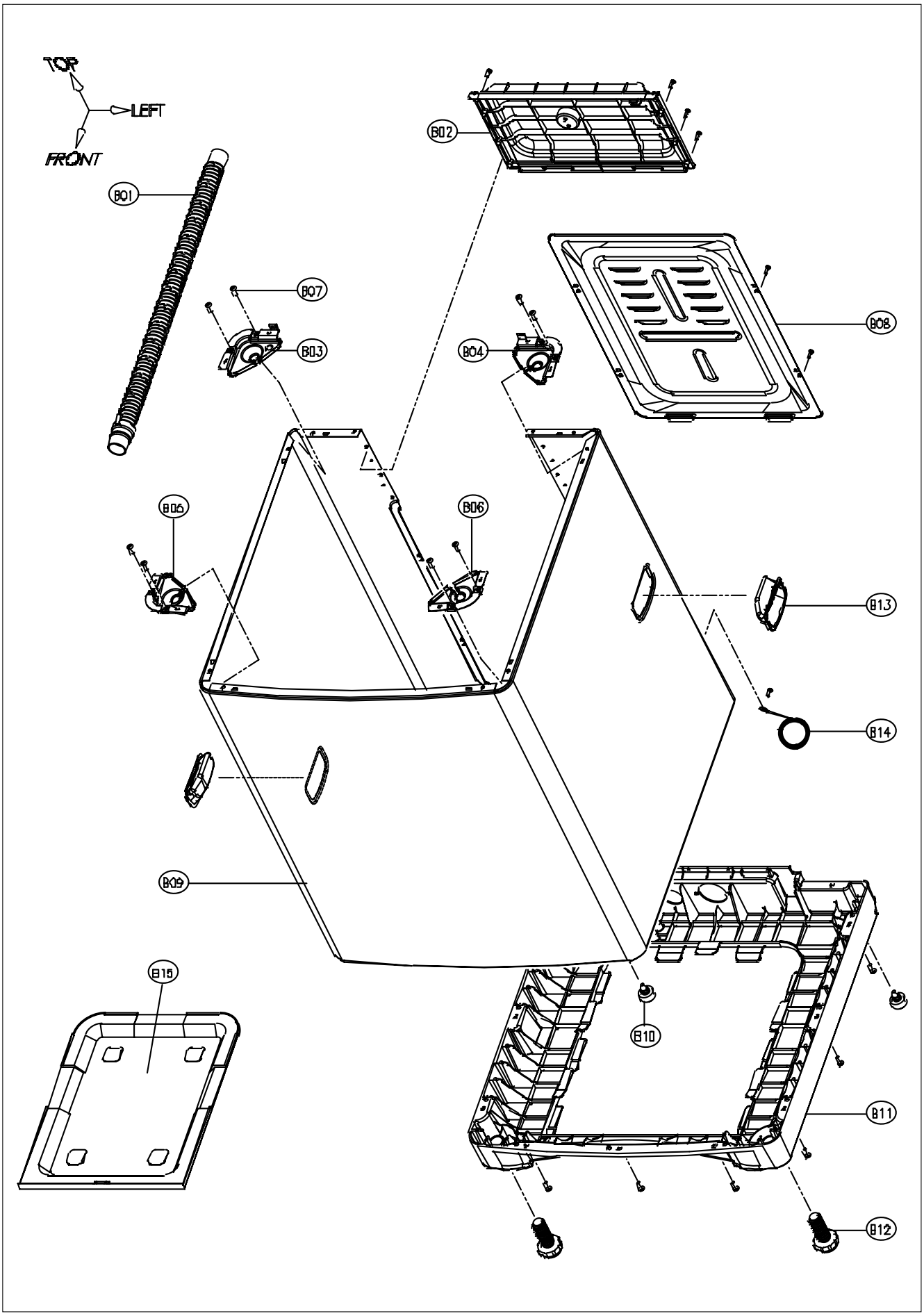
| MESSAGE | CAUSE | SOLUTION |
|---|---|---|
| | Improper installation of drain hose. | Install drain hose properly. |
| | The drain hose is blocked up by foreign matter. | Remove foreign matter from drain hose. |
| | Drain motor is inferior. | Change drain motor. |
| | The water tap is closed. | Open the water tap. |
| | The water inlet filter clogged. | Clean the water inlet filter. |
| | It passes over the 60 minutes, yet it doesn't come to assigned water level. | Fully open the water tap and Check the water pressure. |
| | Wash loads get uneven during spin. | Re-set wash loads evenly. |
| | Poor installation of the unit. | Proper installation. |
| | The lid is opened. | Close the lid. |
| | The safety switch is inferior. | Change the safety switch. |
| | The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 0.5 second and water level is always fixed 'high'. | Change the P.C.B. ASS'Y. |
| | The water level sensing is inferior. | Check the water level sensor and the contact part of the connector. |

## Wiring Diagram



## Parts Diagram

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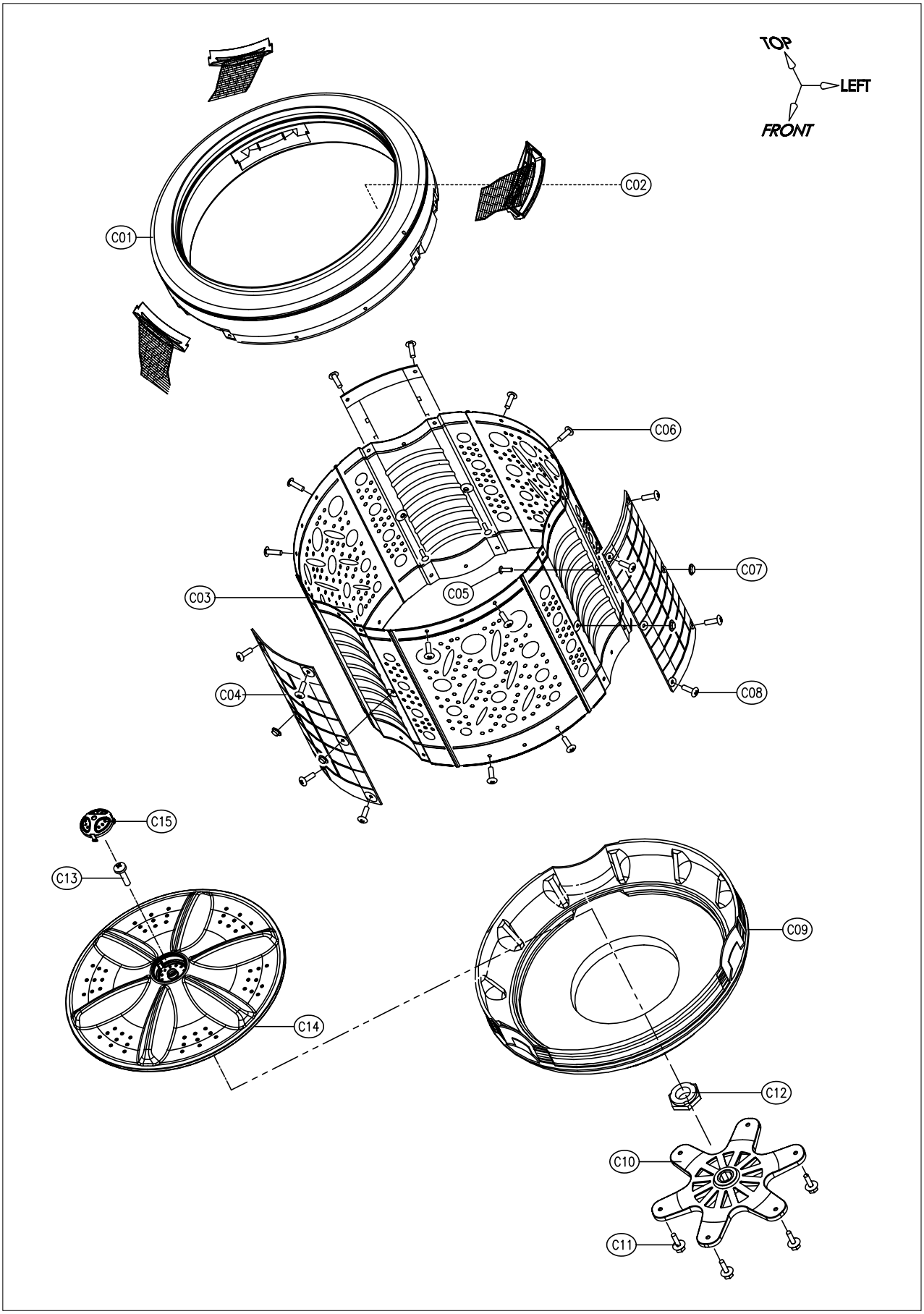
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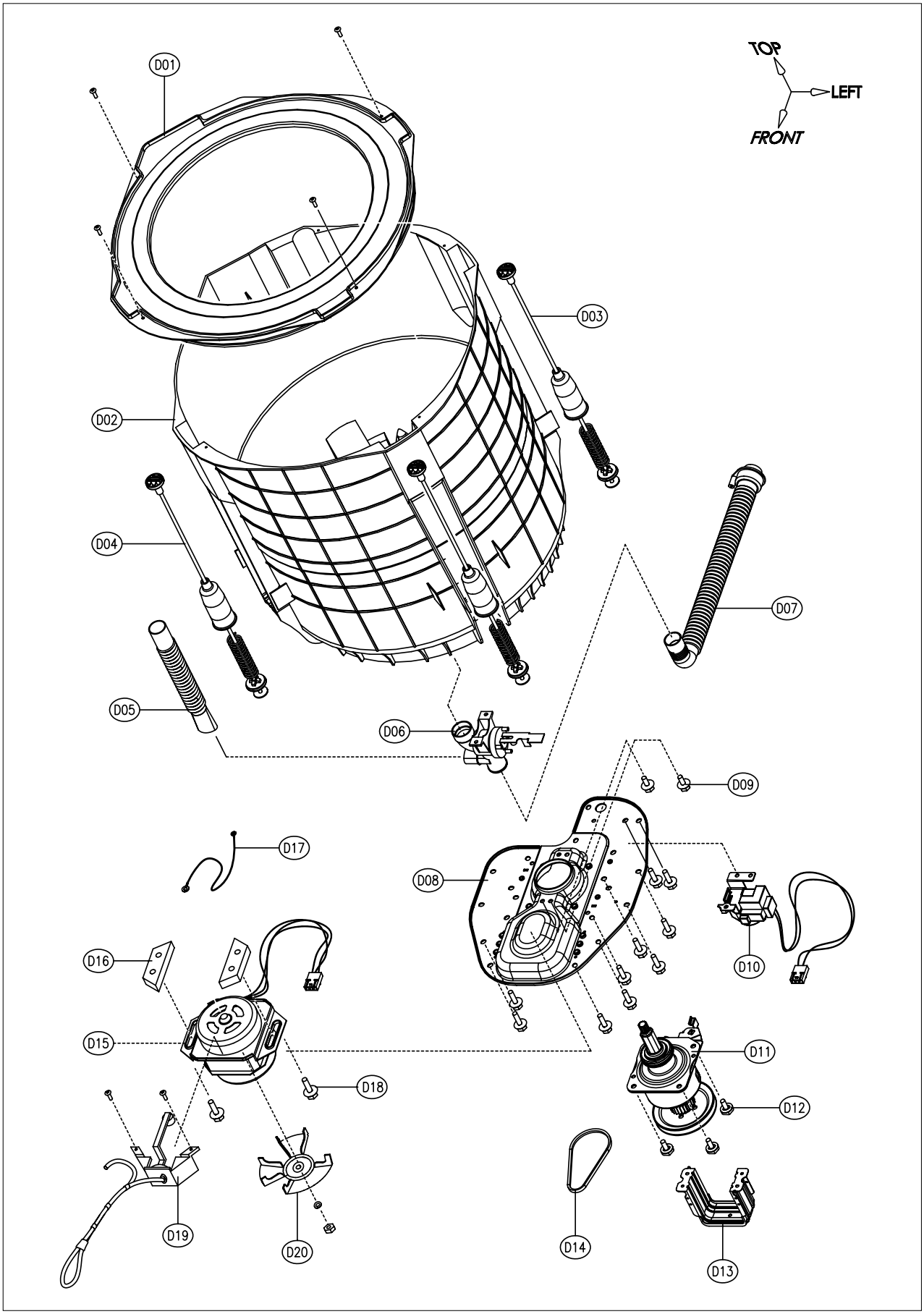
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D13
D14
D15
D16
D17
D18
D19
D20

## Parts List

| No. | PARTS CODE | PARTS NAME | DESCRIPTION | Q'TY | REMARK |
|---|---|---|---|---|---|
| A01 | 3614538Z00 | PLATE T | ABS | 1 | |
| A02 | 3618104700 | NOZZLE AS | PP | 1 | |
| A03 | 3613270830 | HOSE INLET HOT | EPDM, L=467.5±2.5 | 1 | |
| | 3613270840 | HOSE INLET COLD | EPDM, L=512.5±2.5 | 1 | |
| | 3613270850 | HOSE INLET RINSE | EPDM, L=522.5±2.5 | 1 | |
| A04 | 3611205800 | CLAMP HOSE | ID=13.8, W=10.0, 0.9T | 1 | |
| A05 | 3610527200 | BOX INLET | PP | 1 | |
| A06 | 3611142200 | CASE DETERGENT | ABS | 1 | |
| A07 | 3610907800 | CAP SOFTENER | PP | 1 | |
| A08 | 3612609801 | HANDLE DETERGENT | ABS | 1 | |
| A09 | 3612609901 | HANDLE COVER | ABS | 1 | |
| A10 | 3615115100 | SPRING HANDLE | SOS304, D0.6 | 1 | |
| A11 | 3614285901 | PANEL F | ABS | 1 | |
| A12 | PRPSSW200P | PCB AS | 110V/60Hz, NON-PUMP | 1 | 200PSTC |
| | PRPSSW240P | | 110V/60Hz, NON-PUMP | 1 | 240PSTC |
| | PRPSSW260P | | 110V/60Hz, NON-PUMP | 1 | 260PSTC |
| A13 | 3613405710 | KNOB SELECT AS | ABS+AS | 1 | |
| A14 | 3611685100 | DECORATOR FILM | PC FILM | 1 | |
| A15 | 7112509011 | SCREW TAPPING | T1 TRS 5x30 MFZN | 2 | |
| A16 | 3611559900 | CUSHION DOOR | NR | 2 | |
| A17 | 3615504400 | WINDOW DOOR F | ABS-TR | 1 | |
| A18 | 36117ABG01 | DOOR F | ABS | 1 | |
| A19 | 36117ABH01 | DOOR B | ABS, R&L | 1 | |
| A20 | 3611427301 | COVER WIND DRY | ABS, GILDING-BASE | 1 | |
| A21 | 3611427201 | COVER WIND TUNNEL | ABS, SPRAY-BASE | 1 | |
| A22 | 3615115200 | SPRING DOOR | 100H | 1 | |
| A23 | 3615504500 | WINDOW DOOR B | ABS-TR | 1 | |
| A24 | 3619047000 | SWITCH SAFETY | SF-030A19 | 1 | |
| A25 | 3614801630 | SENSOR PRESSURE AS | CDN-15N, 180 , 3PIN | 1 | |
| A26 | 3618956750 | UNIT FILTER | K8-5, 7A, 12MH, VR471 | 1 | |
| A27 | 3619045400 | SWITCH COVER | GSM-V16183 A4 250V16A | 1 | |
| A28 | 3618912400 | UNIT CAPACITOR | 54µF, 200VAC. CAN TYPE | 1 | 200P,240P |
| | 3618912500 | | 65µF, 200VAC. CAN TYPE | 1 | 260P |
| | 3618911200 | | 11.4µF, 400VAC. CAN TYPE | 1 | 200P,240P |
| | 3618911300 | | 12.5µF, 400VAC. CAN TYPE | 1 | 200P,240P |
| A29 | 3611341110 | CORD POWER | 7A125V, 0.75SQ,VCTFK | 1 | TAIWAN |
| | 3611339040 | | CP-2PIN, 100H | 1 | |
| A30 | 3618946420 | UNIT BUBBLE AS | 110V/60Hz | 1 | |
| A31 | 3613265901 | HOSE BUBBLE | L=1250, ID4.0 | 1 | |
| A32 | 3615416330 | VALVE INLET AS | 110V/50,60Hz, COLD ONLY | 1 | |
| | 3615416300 | | 220~240V/50,60Hz. H&C | 1 | |
| A33 | 3614286001 | PANEL B | ABS | 1 | |
| A34 | 3611427401 | COVER PANEL R | ABS | 1 | |
| A35 | 3611427501 | COVER PANEL L | ABS | 1 | |
| A36 | 3612796B45 | HARNESS AS | 110~130V, N-BUBBLE, C-ONLY | 1 | 200P,240P |
| | 3612796B55 | | 110~130V,BUBBLE.C-ONLY | 1 | 260P |
| | 3612796B16 | | 220~240V,N-BUBBLE.H&C | 1 | 200P,240P |
| | 3612796B35 | | 110~130V, N-BUBBLE,N-RINSE, C-ONLY | 1 | 200P,240P |
| | 3612796B25 | | 220~240V,N-BUBBLE,N-RINSE, H&C | 1 | 200P,240P |
| | 3612796B05 | | 220-240V, FULL OPTION | 1 | 200P,240P |
| | 3612796C55 | | PUMP,110~130,BUBBLE, C-ONLY | 1 | 260P |
| | 3612796C45 | | PUMP,110~130,N-BUBBLE, COLD ONLY | 1 | 200P,240P |
| | 3612796C35 | | PUMP,110~130,N-BUBBLE,N-RINSE, C-ONLY | 1 | 200P,240P |
| | 3612796C25 | | PUMP,110~130,N-BUBBLE,N-RINSE, H&C | 1 | 200P,240P |
| | 3612796C15 | | PUMP,110~130,N-BUBBLE,H&C | 1 | 200P,240P |
| | 3612796C05 | | PUMP,110~130,FULL OPTION | 1 | 200P,240P |

| No. | PARTS CODE | PARTS NAME | DESCRIPTION | Q'TY | REMARK |
|---|---|---|---|---|---|
| B01 | 3613226700 | HOSE DRAIN O AS | L=1250mm, HANGER | 1 | |
| B02 | 3614538Y00 | PLATE UPPER | PP | 1 | |
| B03 | 3615302220 | SUPPORTER TUB BL | SPG 1.6T(R-01) | 1 | |
| B04 | 3615302320 | SUPPORTER TUB BR | SPG 1.6T(R-01) | 1 | |
| B05 | 3615302420 | SUPPORTER TUB FL | SPG 1.6T(R-01) | 1 | 240 |
| | 3615302430 | | SPG 1.6T(R-00, PCM) | | 200 |
| B06 | 3615302520 | SUPPORTER TUB FR | SPG 1.6T(R-01) | 1 | 240 |
| | 3615302530 | | SPG 1.6T(R-00, PCM) | | 200 |
| B07 | 7122501211 | SCREW TAPPING | T2S TRS 5x12 MFZN | 8 | |
| B08 | 3611413605 | COVER BACK | 0.35T | 1 | |
| B09 | 3610808011 | CABINET AS | PAINTING (0.6T) | 1 | 200 |
| | 3610808012 | | PAINTING (0.7T,13KG) | | 240 |
| B10 | 3612100330 | FOOT | BUTYL VE | 2 | 200 |
| | 3617702300 | LEG FIX | THERMAL PLASTIC ELASTOMER | | 240 |
| B11 | 3610310205 | BASE U | PP | 1 | 200 |
| | 3610312200 | | | | 240 |
| B12 | 3617702122 | LEG ADJUST AS | VE | 2 | |
| B13 | 3612603300 | HANDLE CABINET | PP | 2 | |
| B14 | 3610068700 | HARNESS OUTER | 50/0.18GREEN,ST710489-2 | 1 | |
| B15 | 3611425701 | SAFTY COVER | NATURAL,1094 VE,PP | 1 | 200 |
| | 3611402711 | COVER UNDER | PP,1094 | | 240 |
| C01 | 3616106000 | BALANCER AS | PP, 100M'S, VE TYPE | 1 | 200 |
| | 3616105400 | | 100'S HIDDEN | | 240 |
| C02 | 3611904700 | FILTER AS | 100M, LINT FILTER AS | 2 | 200 |
| | | | | 3 | 240 |
| C03 | 3618815400 | TUB | SUS, HIDDEN-2 | 1 | 200 |
| | 3618815300 | | SUS, HIDDEN-3 | | 240 |
| C04 | 3612507210 | GUIDE FILTER AS | HIDDEN FILTER(SUS 0.6T) | 2 | 200 |
| | | | | 3 | 240 |
| C05 | 3616008600 | SPECIAL BOLT | SUS | 4 | 200 |
| | | | | 6 | 240 |
| C06 | 3616003700 | SPECIAL SCREW | SUS 5.5x16 | 12 | |
| C07 | 3616008700 | SPECIAL NUT | SUS | 4 | 200 |
| | | | | 6 | 240 |
| C08 | 3616003700 | SPECIAL SCREW | SUS 5.5x16 | 12 | |
| C09 | 3618819902 | TUB U | 98'S, VE TYPE(2-H/G), +M/B | 1 | 200 |
| | 3618815502 | | 13KG,+M/B,+RIB | | 240 |
| C10 | 3617201200 | FLANGE TUB | 10KG,3-FOOT | 1 | 200 |
| | 3617200200 | | ADC 12,12-POINT | | 240 |
| C11 | 3616007000 | SPECIAL SCREW | SCM24H,6.5*24 | 3 | 200 |
| | | | | 12 | 240 |
| C12 | 4507D83080 | SPECIAL NUT | SUS 304 | 1 | |
| C13 | 3616003720 | SPECIAL SCREW | SUS 6X26.5 | 1 | |
| C14 | 3619705510 | PULSATOR AS | 100M | 1 | |
| C15 | 3610911200 | CAP PULSATOR | PP, 100M | 1 | |

| No. | PARTS CODE | PARTS NAME | DESCRIPTION | Q'TY | REMARK |
|---|---|---|---|---|---|
| D01 | 3611417700 | COVER TUB | PP | 1 | 200 |
| | 3611413900 | | | | 240 |
| D02 | 3618807100 | TUB O | 1098 | 1 | |
| D03 | 3619805400 | SUSPENSION AS(B) | ROD=592 SPR=102(BLACK),100C,S | 2 | 200 |
| | 3619803900 | | 1398, BLACK, BACK | | 240 |
| D04 | 3619805500 | SUSPENSION AS(A) | ROD=592 SPR=112(YELLOW),100C,S | 2 | 200 |
| | 3619803800 | SUSPENSION AS(F) | 1398, YELLOW, FRONT | | 240 |
| D05 | 3613208901 | HOSE OVERFLOW | PELD, L=280MM | 1 | |
| D06 | 3615408400 | VALVE DRAIN AS | VE TYPE | 1 | |
| D07 | 3613218500 | HOSE DRAIN I AS | LDPE+EVA, L=219.5 | 1 | |
| D08 | 3610387400 | BASE | SECEN 2.0T | 1 | |
| D09 | 3616007000 | SPECIAL SCREW | SCM24H, 6.5x24 | 14 | |
| D10 | 36196TAN30 | DRAIN MOTOR | SV-HJ7T22D, 100-110V, 50/60HZ | 1 | |
| | 36196TAN00 | | SV-MX7T22D, 220V 50/60HZ | 1 | 260P |
| D11 | 3617310300 | GEAR MECHANISM | GM-1300-YS6P0 | 1 | 200 |
| | 3617310200 | | GM-1300-KS6P2(SPUR) | | 240, 260 |
| D12 | 7341801511 | BOLT HEX | 6B-1 8x15 MFZN | 4 | |
| D13 | 3618301300 | PROTECTOR GEAR | SBHG 1.6T | 1 | |
| D14 | 3616590220 | BELT V | M20.5, AGING | 1 | |
| D15 | 3964221290 | MOTOR CONDENSER | W1D50CA015, 110-127V/60Hz, 1490 KET 3P | 1 | 200, 240 |
| | 3964321280 | | W1S50UA019, 220V/60HZ | 1 | |
| | 3964221030 | | WM244EA012, 110-127V/60Hz | 1 | 260P |
| D16 | 3611502700 | CUSHION DOWN | POM(8MM) | 2 | |
| D17 | 3612757030 | HARNESS EARTH INNER | L ID=4.3, R ID=8.3, L=810 | 1 | |
| D18 | 7650802528 | BOLT HEX | 6B-1 8x25 PW(3x28) MFZN | 2 | |
| D19 | 3610402931 | BODY BUBBLE AS | 104KR, 2700MM | 1 | |
| D20 | 3618432000 | PULLEY MOTOR AS | M-TYPE, DS=10, DP=48.5, 60HZ | 1 | |
| | 3618403610 | | M-TYPE, DS=12, DP=48.5, 60HZ | 1 | 260P |

## Sequence Chart

| Division | | Progress Time | FUZZY | | | SOAK | | HEAVY | | ECO | | WOOL | CLEANING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | High | Mid | Low/Small | High/Mid | Low/Small | High/Mid | Low/Small | High/Mid | Low/Small | High/Mid | High |
| pre wash | Sensing | 7 sec. | ■ | ■ | ■ | | | | | | | | |
| | Water inlet | 4 min. | ▮ | ▮ | | ▮ | | ▮ | | ▮ | | ▮ | ▮ |
| | | 2 min. | ▮ | ▮ | ■ | ▮ | ■ | ▮ | ■ | ▮ | ■ | ▮ | ▮ |
| | Pre-wash | 60 min. | | | | ■ | ■ | | | | | | |
| | Wash | 18 min. | ▮ | | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 15 min. | ▮ | | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 14 min. | ▮ | ▮ | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 10 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 6 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ■ | ■ | ▮ |
| | Balance control | 35 sec. | ▮ | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ |
| Rinse | Drain | 3 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ▮ | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ■ | ▮ | ▮ |
| | Balance Spin | 1 min. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Mid. Spin | 90 sec. | | | | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | ▮ |
| | | 60 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | ▮ |
| | | 20 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ▮ |
| | Natural stop | 2 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | ▮ |
| | | 40 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ▮ |
| | Water inlet | 4 min. | ▮ | ▮ | | ▮ | | ▮ | | ▮ | | ▮ | ▮ |
| | | 2 min. | ▮ | ▮ | ■ | ▮ | ■ | ▮ | ■ | ▮ | ■ | ▮ | ▮ |
| | Rinse 1 | 3 min. | | | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 2 min. | ■ | ■ | ■ | ▮ | ▮ | ▮ | ▮ | ■ | ■ | ■ | ▮ |
| | Balance control | 35 sec. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| | Drain | 3 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ▮ | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ▮ | ▮ |
| | Balance Spin | 1 min. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ |
| | Mid. Spin | 90 sec. | | | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 60 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 20 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ■ | ▮ |
| | Natural stop | 2 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 40 sec. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ■ | ▮ |
| | Water inlet | 4 min. | ▮ | ▮ | | ▮ | | ▮ | | | | ▮ | ▮ |
| | | 2 min. | ▮ | ▮ | ■ | ▮ | ■ | ▮ | ■ | | | ▮ | ▮ |
| | Rinse 2 | 3 min. | | | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 2 min. | ■ | ■ | ■ | ▮ | ▮ | ▮ | ▮ | | | ■ | ▮ |
| | Balance control | 35 sec. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ |
| spin | Drain | 3 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | ▮ | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ■ | ▮ | ▮ |
| | Balance Spin | 1 min. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| | Main spin | 9 min. | | | | | | | | | | | ▮ |
| | | 7 min. | | | | | | | | | | | ▮ |
| | | 5 min. | ▮ | ▮ | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 4 min. | ▮ | ▮ | | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 3 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ▮ |
| | Natural stop | 2 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | | | | ▮ |
| | | 1 min. | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ▮ | ■ | ■ | ■ | ▮ |
| **Buzzer** | | 10 sec. | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **Over Time Indication** | | | 59 | 55 | 44 | 2H | 2H | 61 | 55 | 26 | 22 | 36 | 2H |

**DAEWOO ELECTRONICS CORP.**
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CABLE: “DAEWOOELEC”

S/M NO. :

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